

1. (Currently Amended) A blood treatment device comprising:

a treating ~~means that performs~~ unit configured to perform a predetermined treatment to blood collected from a patient;

a measuring ~~means that measures~~ unit configured to measure at least one blood parameters parameter and ~~indicates the~~ to indicate a status of said blood of said patient;

a controlling ~~means that controls~~ unit configured to control at least one treatment conditions condition based on said blood ~~parameters~~ parameter measured using said measuring ~~[[means]]~~ unit;

a storing ~~means that stores~~ unit configured to store an ideal patient-specific blood parameter curve for a specific treatment duration, said ideal patient-specific blood parameter curve being obtained based on said blood parameter that is measured in real time in a blood treatment for said patient prior to said predetermined treatment of said patient; and

a directing ~~means that compares~~ unit configured to compare said ideal patient-specific blood parameter curve stored in said storing ~~[[means]]~~ unit with said blood parameters parameter measured with said measuring ~~[[means]]~~ unit, and ~~that changes the~~ to adjust a control from said controlling ~~[[means]]~~ unit so that said measured blood ~~parameters~~ parameter approximate to said ideal patient-specific blood parameter curve.

2. (Currently Amended) The blood treatment device of claim 1, wherein said blood parameter is a hematocrit value indicating either a blood concentration or a rate of change [[of]] in a circulating blood volume derived from said hematocrit value.

6. (Currently Amended) The blood treatment device of claim 1, wherein said ideal patient-specific blood parameter curve stored in said storing [[means]] unit is an approximation equation

calculated from ~~[[an]]~~ said ideal patient-specific blood parameter curve obtained from ~~a previously performed~~ said blood treatment to said patient prior to said predetermined treatment to said patient.

7. (Currently Amended) The blood treatment device of claim 1, wherein, when said blood ~~parameters~~ parameter measured by said measuring ~~means undergo~~ unit undergoes an abrupt change, a direction to ~~change~~ adjust from said directing ~~[[means]]~~ unit is overridden in such a way as to suppress said abrupt change.

8. (Currently Amended) The blood treatment device of claim 1, wherein said at least one blood parameter includes said specific treatment duration ~~is one of said parameters when said directing means directs said controlling means to change.~~

9. (Currently Amended) The blood treatment device of claim 1, wherein:
an absolute base line is established against said blood ~~parameters~~ parameter; and
said control adjusted by said directing ~~[[means]]~~ unit is overridden when said blood ~~parameters fall~~ parameter falls below said absolute base line.

10. (Canceled)

11. (Currently Amended) A blood treatment method using ~~[[the]]~~ a blood treatment device, comprising: having a treating means that performs
performing a predetermined treatment to blood collected from a patient; [[a]]

directing to adjust ~~changing the control of~~ said controlling ~~[[means]]~~ when said ~~treating~~ means is to perform a said predetermined treatment for said ~~particular~~ patient is performed in said performing, so that said blood ~~parameters~~ parameter measured ~~[[by]]~~ in said measuring ~~[[means]]~~ approximate said ideal patient-specific blood parameter curve.

12. (Currently Amended) The blood treatment method of claim 11, wherein said blood parameter is a hematocrit value indicating either a blood concentration or a rate of change [[of]] in a circulating blood volume derived from said hematocrit value.

13. (Currently Amended) The blood treatment method of claim 11, wherein:
said ~~treating means is formed from a~~ performing includes driving means for a blood
purifying apparatus ~~that purifies~~ configured to purify said blood of said patient while
extracorporeally circulating said blood; and

said at least one treatment condition controlled ~~[[by]]~~ in said controlling ~~[[means]]~~ is selected from the group consisting of ~~[[:]]~~ a water removal rate, a blood flow rate, a fluid substitution rate, a concentration of a dialyzing fluid, a sodium ion concentration, a blood treatment duration, a flow rate of a dialyzing fluid, a temperature of a dialyzing fluid, a volume of a substitution fluid, an amount of a drug injected, a rate of a drug injection, ~~or combinations thereof~~.

14. (Currently Amended) The blood treatment method of claim 11, wherein said ideal patient-specific blood parameter curve is corrected based on said blood ~~parameters~~ parameter measured ~~[[by]]~~ in said measuring ~~[[means]]~~ at ~~[[the]]~~ a start of ~~[[blood]]~~ said predetermined treatment.

15. (Currently Amended) The blood treatment method of claim 11, wherein, in said ~~further comprising a directing, means that varies a change in control of~~ said controlling ~~[[means]]~~ is adjusted based on a deviation between said ideal patient-specific blood parameter curve and said blood parameter measured ~~[[by]]~~ in said measuring ~~[[means]]~~.

16. (Canceled)

17. (Currently Amended) The blood treatment method of claim 11, wherein, when said blood ~~parameters~~ parameter measured ~~[[by]]~~ in said measuring ~~means undergo~~ undergoes an abrupt change, a direction to ~~change from~~ adjust in said directing ~~[[means]]~~ is overridden in such a way as to suppress said abrupt change.

21. (Currently Amended) The blood treatment method of claim 20, wherein said ~~directing~~
~~means~~ direction is overridden by said controlling ~~[[means]]~~, which changes the ~~control~~ direction to
approximate ~~the measured~~ a hematocrit value, measured as said blood parameter in said measuring,
to the ideal patient-specific blood parameter curve..